



**SAIC Engineering, Inc.**

**A Subsidiary of Science Applications International Corporation**

*An Employee-Owned Company*



SDMS DocID

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March 28, 2001

01-0801-05-0051-001

U.S. Environmental Protection Agency  
Region 1  
John F. Kennedy Building  
Boston, Massachusetts 02203

Attention: Mr. Frank Ciavattieri

Reference: **Aerovox Site Post-Closure Monitoring,  
March 8, 9 and 10, 2001**

Dear Mr. Ciavattieri:

Enclosed are the results of the water level monitoring and cap inspection conducted at the Aerovox Site by SAIC Engineering, Inc. during the March 9, 2001 full moon period.

The next inspection and round of water level readings are scheduled for the Fall 2001 full moon period. Please call if you have any questions.

Sincerely,

SAIC ENGINEERING, INC.

Allen F. Davis, P.E.  
Project Manager

• Enclosures

cc: G. Monte, DEP/SERO  
P. Galvani, Ropes & Gray  
D. Lopes, Aerovox



**POST-CLOSURE MONITORING REPORT  
AEROVOX, INC.  
NEW BEDFORD, MASSACHUSETTS**

I certify under penalty of law that I have personally examined and am familiar with the information in this inspection report and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Daniel Lopes  
Name

3/15/01  
Date

  
Signature

Facilities Manager  
Official Title

**LIST OF ATTACHMENTS**

Tables 1A and 1B      Dated: 3/8/01

Tables 2A and 2B      Dated: 3/9/01

Tables 3A and 3B      Dated: 3/10/01

Cap Inspection Report - Spring 2001

**TABLE 1A****WATER LEVEL READINGS****AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: High

Time of Tide: 0630

March 8, 2001

Time of Readings: 0608 - 0632

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASLINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 200 MONTHS (4)
Tide Gauge	4.76		Flooded no reading			
Well No. 2	6.92		4.00	2.92		
Well No. 2A	6.67	2.62	2.97	3.70	1.08	1.51 - 4.00
Well No. 3	6.95		4.13	2.82		
Well No. 3A	8.26	1.86	5.61	2.65	0.79	0.78 - 3.31
Well No. 4	10.99		7.40	3.59		
Well No. 4A	10.78	2.28	7.93	2.85	0.57	1.60 - 3.88
Well No. 7	7.59		4.33	3.26		
Well No. 7A	7.33	2.60	4.12	3.21	0.61	2.38 - 3.40

**NOTES:**

Readings by: Steve McInall

Affiliation: SAIC Engineering , Inc.. 101 East Grove Street, Middleboro, Massachusetts, 02346

**FOOTNOTES:**

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft , at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through March 2001.

**TABLE 1B****WATER LEVEL READINGS****AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: Low

Time of Tide: 1235

March 8, 2001

Time of Readings: 1220 - 1240

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 200 MONTHS (4)
Tide Gauge	4.76		Dry	-		
Well No. 2	6.92		5.53	1.39		
Well No. 2A	6.67	2.62	2.91	3.76	1.14	1.51 - 4.00
Well No. 3	6.95		5.35	1.60		
Well No. 3A	8.26	1.86	5.68	2.58	0.72	0.78 - 3.31
Well No. 4	10.99		10.24	0.75		
Well No. 4A	10.78	2.28	7.40	3.38	1.10	1.60 - 3.88
Well No. 7	7.59		6.94	0.65		
Well No. 7A	7.33	2.60	4.12	3.21	0.61	2.38 - 3.40

**NOTES:**

Readings by: Steve McInall

Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

**FOOTNOTES:**

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft, at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through March 2001.

**TABLE 2A****WATER LEVEL READINGS****AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: High

Time of Tide: 0720

March 9, 2001

Time of Readings: 0706 - 0725

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 200 MONTHS (4)
Tide Gauge	4.76		Flooded no reading			
Well No. 2	6.92		4.05	2.87		
Well No. 2A	6.67	2.62	3.05	3.62	1.00	1.51 - 4.00
Well No. 3	6.95		4.17	2.78		
Well No. 3A	8.26	1.86	5.56	2.70	0.84	0.78 - 3.31
Well No. 4	10.99		7.89	3.10		
Well No. 4A	10.78	2.28	7.43	3.35	1.07	1.60 - 3.88
Well No. 7	7.59		4.25	3.34		
Well No. 7A	7.33	2.60	4.12	3.21	0.61	2.38 - 3.40

**NOTES:**

Readings by: Steve McInall

Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

**FOOTNOTES:**

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft, at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through March 2001.

**TABLE 2B****WATER LEVEL READINGS****AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: Low

Time of Tide: 1321

March 9, 2001

Time of Readings: 1312 - 1328

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 200 MONTHS (4)
Tide Gauge	4.76		Dry	--		
Well No. 2	6.92		5.53	1.39		
Well No. 2A	6.67	2.62	3.02	3.65	1.03	1.51 - 4.00
Well No. 3	6.95		5.34	1.61		
Well No. 3A	8.26	1.86	5.52	2.74	0.88	0.78 - 3.31
Well No. 4	10.99		10.15	0.84		
Well No. 4A	10.78	2.28	7.44	3.34	1.06	1.60 - 3.88
Well No. 7	7.59		6.85	0.74		
Well No. 7A	7.33	2.60	4.15	3.18	0.58	2.38 - 3.40

**NOTES:**

Readings by: Steve McInall

Affiliation: SAIC Engineering , Inc.. 101 East Grove Street, Middleboro, Massachusetts, 02346

**FOOTNOTES:**

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft , at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through March 2001.

## TABLE 3A

### WATER LEVEL READINGS

#### AEROVOX PLANT SITE NEW BEDFORD, MASSACHUSETTS

Tide Stage: High  
Time of Tide: 0808  
March 10, 2001  
Time of Readings: 0755 - 0811

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 200 MONTHS (4)
Tide Gauge	4.76		Flooded no reading			
Well No. 2	6.92		4.07	2.85		
Well No. 2A	6.67	2.62	2.87	3.80	1.18	1.51 - 4.00
Well No. 3	6.95		4.20	2.75		
Well No. 3A	8.26	1.86	5.46	2.80	0.94	0.78 - 3.31
Well No. 4	10.99		7.99	3.00		
Well No. 4A	10.78	2.28	7.29	3.49	1.21	1.60 - 3.88
Well No. 7	7.59		4.35	3.24		
Well No. 7A	7.33	2.60	4.09	3.24	0.64	2.38 - 3.40

#### NOTES:

Readings by: Steve McInall  
Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

#### FOOTNOTES:

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft, at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through March 2001.

**TABLE 3B****WATER LEVEL READINGS****AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: Low

Time of Tide: 1404

March 10, 2001

Time of Readings: 1409 - 1440

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASLINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 200 MONTHS (4)
Tide Gauge	4.76		Dry	--		
Well No. 2	6.92		5.22	1.70		
Well No. 2A	6.67	2.62	3.67	3.00	0.38	1.51 - 4.00
Well No. 3	6.95		5.80	1.15		
Well No. 3A	8.26	1.86	5.44	2.82	0.96	0.78 - 3.31
Well No. 4	10.99		10.45	0.54		
Well No. 4A	10.78	2.28	8.27	2.51	0.23	1.60 - 3.88
Well No. 7	7.59		7.11	0.48		
Well No. 7A	7.33	2.60	4.38	2.95	0.35	2.38 - 3.40

**NOTES:**

Readings by: David Minese

Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

**FOOTNOTES:**

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft, at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through March 2001.



# SHEET PILING/CAP INSPECTION REPORT - SPRING 2001

AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS

		Check if any listed defect is observed				
		CRACKS OR GAPS	FLAKING OR SPALLING	FROST HEAVES	DEPRESSION SETTLEMENT	OTHER
A.	8-foot wide strip adjacent to north trough					
	1. Surface					
	2. Joints					
B.	Directly behind plant					
	1. Surface	x	x			Near wells 4/4A
	2. Joints					
	* along building					
	* around cooling tower	x				See Note No. 1
	* around well casings	x				See Note No.2
	* along steel pilings					
	* around fence posts	x				See Note No. 4, 5
C.	Remaining area on either side of old pump house					
	1. Surface					
	2. Joints	x				See Note No.3
	* around well casings	x				
	* around fence posts					
	* along steel pilings					
D.	South drainage trough extension (concrete pipe)					
	1. Surface					
	2. Joints					

Inspection by : Steve McInall - 3/9/01

Affiliation : SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts 02346

Note No. 1: Minor cracks between building and chilling units

Note No. 2: Minor cracking near wells 2 and 2A and, in general, any new cracks should be resealed

Note No.3: Cracks in pavement in parking spaces Nos. 333, 336, 330, 329, 328 and South of 328, some extending under fence easterly, need sealing

Note No.4: Crack south of northeast corner of fenced area (3rd segment) should be resealed, in fenced area and easterly to sheet pile line  
Crack running under 10th segment (S of NE corner) should be resealed

Note No.5: Near fence, in center depression, previously repaired crack which has reopened should be sealed.  
Near gate to river, between sheetpiling and fence, large crack should be sealed.